
Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: Fri Nov 02 14:26:43 EDT 2007

Validated By CRFValidator v 1.0.3

Application No: Version No: 10592944 1.0

Input Set:

Output Set:

Started: 2007-10-18 13:49:33.374 Finished: 2007-10-18 13:49:34.851

Elapsed:

0 hr(s) 0 min(s) 1 sec(s) 477 ms

Total Warnings: 25 Total Errors: 0

No. of SeqIDs Defined: 26

Actual SeqID Count: 26

Error code		Error Descript	ion								
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(1)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(2)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(3)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(4)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(6)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(7)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(8)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(9)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(10)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(11)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(12)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(13)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(14)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(15)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(16)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(17)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(18)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(19)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(20)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(21)

Input Set:

Output Set:

Started: 2007-10-18 13:49:33.374 **Finished:** 2007-10-18 13:49:34.851

Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 477 ms

Total Warnings: 25

Total Errors: 0

No. of SeqIDs Defined: 26

Actual SeqID Count: 26

Error code Error Description

This error has occured more than 20 times, will not be displayed

```
<110> BOUGERET, CECILE
     ZARZOV, PATRICK
     BRIAND, JEAN-FRANCOIS
     THOMAS, DOMINIQUE
<120> METHOD FOR SCREENING AGENTS MODULATING I-KAPPA B-ALPHA
      PROTEIN UBIQUITINATION AND MEANS FOR CARRYING OUT SAID
     METHOD
<130> 0510-1149
<140> 10592944
<141> 2007-10-18
<150> PCT/FR05/050165
<151> 2005-03-15
<150> FR 04 50528
<151> 2004-03-16
<160> 26
<170> PatentIn Ver. 3.3
<210> 1
<211> 1719
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
     construct
<400> 1
atgtctaaag gtgaagaatt attcactggt gttgtcccaa ttttggttga attagatggt 60
gatgttaatg gtcacaaatt ttctgtctcc ggtgaaggtg aaggtgatgc tacttacggt 120
aaattgacct taaaatttat ttgtactact ggtaaattgc cagttccatg gccaacctta 180
gtcactactt tcggttatgg tgttcaatgt tttgctagat acccagatca tatgaaacaa 240
catgactttt tcaagtctgc catgccagaa ggttatgttc aagaaagaac tattttttc 300
aaagatgacg gtaactacaa gaccagagct gaagtcaagt ttgaaggtga taccttagtt 360
aatagaatcg aattaaaagg tattgatttt aaagaagatg gtaacatttt aggtcacaaa 420
ttggaataca actataactc tcacaatgtt tacatcatgg ctgacaaaca aaagaatggt 480
atcaaagtta acttcaaaat tagacacaac attgaagatg gttctgttca attagctgac 540
cattatcaac aaaatactcc aattggtgat ggtccagtct tgttaccaga caaccattac 600
ttatccactc aatctgcctt atccaaagat ccaaacgaaa agagagacca catggtcttg 660
ttagaatttg ttactgctgc tggtattacc catggtatgg atgaattgta caaactgcag 720
agcccacctc caaaaaagaa gagaaaggtc gaattgggcg gatccatgtt ccaggcggcc 780
gagegeeece aggagtggge catggaggge eecegegaeg ggetgaagaa ggageggeta 840
ctggacgacc gccacgacag cggcctggac tccatgaaag acgaggagta cgagcagatg 900
gtcaaggagc tgcaggagat ccgcctcgag ccgcaggagg tgccgcgcgg ctcggagccc 960
tggaagcagc agctcaccga ggacggggac tcgttcctgc acttggccat catccatgaa 1020
gaaaaggcac tgaccatgga agtgatccgc caggtgaagg gagacctggc tttcctcaac 1080
```

ttccagaaca acctgcagca gactccactc cacttggctg tgatcaccaa ccagccagaa 1140 attgctgagg cacttctggg agctggctgt gatcctgagc tccgagactt tcgaggaaat 1200

```
tectgeacea eccegeacet ecactecate etgaaggeta ecaactacaa tggecacaeg 1320
tgtctacact tagcctctat ccatggctac ctgggcatcg tggagctttt ggtgtccttg 1380
ggtgctgatg tcaatgctca ggagccctgt aatggccgga ctgcccttca cctcgcagtg 1440
gacctgcaaa atcctgacct ggtgtcactc ctgttgaagt gtggggctga tgtcaacaga 1500
gttacctacc agggctattc tccctaccag ctcacctggg gccgcccaag cacccggata 1560
cagcagcagc tgggccagct gacactagaa aaccttcaga tgctgccaga gagtgaggat 1620
gaggagaget atgacacaga gtcagagttc acggagttca cagaggacga gctgccctat 1680
gatgactgtg tgtttggagg ccagcgtctg acgttatga
<210> 2
<211> 572
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
     construct
<400> 2
Met Ser Lys Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu Val
                                   10
Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu
            20
                                25
Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys
                             40
Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Phe
     50
                         55
Gly Tyr Gly Val Gln Cys Phe Ala Arg Tyr Pro Asp His Met Lys Gln
                                        75
His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg
                85
                                    90
Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val
Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile
                          120
       115
                                               125
Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn
    130
                       135
                                            140
Tyr Asn Ser His Asn Val Tyr Ile Met Ala Asp Lys Gln Lys Asn Gly
                   150
                                        155
Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Ser Val
               165
                                  170
Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro
```

185

190

180

acceccetae acettgeetg tgageaggge tgeetggeea gegtgggagt cetgaeteag 1260

Val	Leu	Leu 195	Pro	Asp	Asn	His	Tyr 200	Leu	Ser	Thr	Gln	Ser 205	Ala	Leu	Ser
Lys	Asp 210	Pro	Asn	Glu	Lys	Arg 215	Asp	His	Met	Val	Leu 220	Leu	Glu	Phe	Val
Thr 225	Ala	Ala	Gly	Ile	Thr 230	His	Gly	Met	Asp	Glu 235	Leu	Tyr	Lys	Leu	Gln 240
Ser	Pro	Pro	Pro	Lys 245	Lys	Lys	Arg	Lys	Val 250	Glu	Leu	Gly	Gly	Ser 255	Met
Phe	Gln	Ala	Ala 260	Glu	Arg	Pro	Gln	Glu 265	Trp	Ala	Met	Glu	Gly 270	Pro	Arg
Asp	Gly	Leu 275	Lys	Lys	Glu	Arg	Leu 280	Leu	Asp	Asp	Arg	His 285	Asp	Ser	Gly
Leu	Asp 290	Ser	Met	Lys	Asp	Glu 295	Glu	Tyr	Glu	Gln	Met 300	Val	Lys	Glu	Leu
Gln 305	Glu	Ile	Arg	Leu	Glu 310	Pro	Gln	Glu	Val	Pro 315	Arg	Gly	Ser	Glu	Pro 320
Trp	Lys	Gln	Gln	Leu 325	Thr	Glu	Asp	Gly	330	Ser	Phe	Leu	His	Leu 335	Ala
Ile	Ile	His	Glu 340	Glu	Lys	Ala	Leu	Thr 345	Met	Glu	Val	Ile	Arg 350	Gln	Val
Lys	Gly	Asp 355	Leu	Ala	Phe	Leu	Asn 360	Phe	Gln	Asn	Asn	16u 365	Gln	Gln	Thr
Pro	1eu 370	His	Leu	Ala	Val	11e 375	Thr	Asn	Gln	Pro	Glu 380	Ile	Ala	Glu	Ala
Leu 385	Leu	Gly	Ala	Gly	390	Asp	Pro	Glu	Leu	Arg 395	Asp	Phe	Arg	Gly	Asn 400
Thr	Pro	Leu	His	Leu 405	Ala	Cys	Glu	Gln	Gly 410	Cys	Leu	Ala	Ser	Val 415	Gly
Val	Leu	Thr	Gln 420	Ser	Cys	Thr	Thr	Pro 425	His	Leu	His	Ser	11e 430	Leu	Lys
Ala	Thr	Asn 435	Tyr	Asn	Gly	His	Thr 440	Cys	Leu	His	Leu	Ala 445	Ser	Ile	His
Gly	Tyr 450	Leu	Gly	Ile	Val	Glu 455	Leu	Leu	Val	Ser	Leu 460	Gly	Ala	Asp	Val
Asn 465	Ala	Gln	Glu	Pro	Cys 470	Asn	Gly	Arg	Thr	Ala 475	Leu	His	Leu	Ala	Val 480
Asp	Leu	Gln	Asn	Pro 485	Asp	Leu	Val	Ser	Leu 490	Leu	Leu	Lys	Cys	Gly 495	Ala

Asp Val Asn Arg Val Thr Tyr Gln Gly Tyr Ser Pro Tyr Gln Leu Thr 500 505 510

Trp Gly Arg Pro Ser Thr Arg Ile Gln Gln Gln Leu Gly Gln Leu Thr
515 520 525

Leu Glu Asn Leu Gln Met Leu Pro Glu Ser Glu Asp Glu Glu Ser Tyr 530 540

Asp Thr Glu Ser Glu Phe Thr Glu Phe Thr Glu Asp Glu Leu Pro Tyr 545 550 555 560

Asp Asp Cys Val Phe Gly Gly Gln Arg Leu Thr Leu 565 570

<210> 3

<211> 2583

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic construct

<400> 3

atgtctaaag gtgaagaatt attcactggt gttgtcccaa ttttggttga attagatggt 60 gatgttaatg gtcacaaatt ttctgtctcc ggtgaaggtg aaggtgatgc tacttacggt 120 aaattgacct taaaatttat ttgtactact ggtaaattgc cagttccatg gccaacctta 180 gtcactactt tcggttatgg tgttcaatgt tttgctagat acccagatca tatgaaacaa 240 catgactttt tcaagtctgc catgccagaa ggttatgttc aagaaagaac tattttttc 300 aaagatgacg gtaactacaa gaccagagct gaagtcaagt ttgaaggtga taccttagtt 360 aatagaatcg aattaaaagg tattgatttt aaagaagatg gtaacatttt aggtcacaaa 420 ttggaataca actataactc tcacaatgtt tacatcatgg ctgacaaaca aaagaatggt 480 atcaaagtta acttcaaaat tagacacaac attgaagatg gttctgttca attagctgac 540 cattatcaac aaaatactcc aattggtgat ggtccagtct tgttaccaga caaccattac 600 ttatccactc aatctgcctt atccaaagat ccaaacgaaa agagagacca catggtcttg 660 ttagaatttg ttactgctgc tggtattacc catggtatgg atgaattgta caaactgcag 720 agcccacctc caaaaaagaa gagaaaggtc gaattgggcg gatccatgga cccggccgag 780 geggtgetge aagagaagge acteaagttt atgtgeteta tgeecaggte tetgtggetg 840 ggctgctcca gcctggcgga cagcatgcct tcgctgcgat gcctgtataa cccagggact 900 ggcgcactca cagctttcca gaattcctca gagagagaag actgtaataa tggcgaaccc 960 cctaggaaga taataccaga gaagaattca cttagacaga catacaacag ctgtgccaga 1020 ctctgcttaa accaagaaac agtatgttta gcaagcactg ctatgaagac tgagaattgt 1080 gtggccaaaa caaaacttgc caatggcact tccagtatga ttgtgcccaa gcaacggaaa 1140 ctctcagcaa gctatgaaaa ggaaaaggaa ctgtgtgtca aatactttga gcagtggtca 1200 gagtcagatc aagtggaatt tgtggaacat cttatatccc aaatgtgtca ttaccaacat 1260 gggcacataa actcgtatct taaacctatg ttgcagagag atttcataac tgctctgcca 1320 gctcggggat tggatcatat tgctgagaac attctgtcat acctggatgc caaatcacta 1380 tgtgctgctg aacttgtgtg caaggaatgg taccgagtga cctctgatgg catgctgtgg 1440 aagaagetta tegagagaat ggteaggaca gattetetgt ggagaggeet ggeagaacga 1500 agaggatggg gacagtattt attcaaaaac aaacctcctg acgggaatgc tcctcccaac 1560 tetttttata gageaettta teetaaaatt atacaagaea ttgagaeaat agaatetaat 1620 tggagatgtg gaagacatag tttacagaga attcactgcc gaagtgaaac aagcaaagga 1680 gtttactgtt tacagtatga tgatcagaaa atagtaagcg gccttcgaga caacacaatc 1740 aagatctggg ataaaaacac attggaatgc aagcgaattc tcacaggcca tacaggttca 1800 gtcctctgtc tccagtatga tgagagagtg atcataacag gatcatcgga ttccacggtc 1860 agagtgtggg atgtaaatac aggtgaaatg ctaaacacgt tgattcacca ttgtgaagca 1920 gttctgcact tgcgtttcaa taatggcatg atggtgacct gctccaaaga tcgttccatt 1980 gctgtatggg atatggcctc cccaactgac attaccctcc ggagggtgct ggtcggacac 2040 cgagctgctg tcaatgttgt agactttgat gacaagtaca ttgtttctgc atctggggat 2100 agaactataa aggtatggaa cacaagtact tgtgaatttg taaggacctt aaatggacac 2160 aaacgaggca ttgcctgttt gcagtacagg gacaggctgg tagtgagtgg ctcatctgac 2220 aacactatca gattatggga catagaatgt ggtgcatgtt tacgagtgtt agaaggccat 2280 gaggaattgg tgcgttgtat tcgatttgat aacaagagga tagtcagtgg ggcctatgat 2340 ggaaaaatta aagtgtggga tettgtgget getttggace eeegtgetee tgeagggaca 2400 ctctgtctac ggacccttgt ggagcattcc ggaagagttt ttcgactaca gtttgatgaa 2460 ttccagattg tcagtagttc acatgatgac acaatcctca tctgggactt cctaaatgat 2520 ccagctgccc aagctgaacc cccccgttcc ccttctcgaa catacaccta catctccaga 2580 tga 2583 <210> 4

<211> 860

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic construct

<400> 4

Met Ser Lys Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu Val 1.0

Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu 25

Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys 35 40

Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Phe 50 55

Gly Tyr Gly Val Gln Cys Phe Ala Arg Tyr Pro Asp His Met Lys Gln 65 70 75

His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg 85 90

Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val 100 105

Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile 115 120

Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn 130 135

Tyr Asn Ser His Asn Val Tyr Ile Met Ala Asp Lys Gln Lys Asn Gly 145 150 155 160

Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Ser Val

165 170 175

Gln	Leu	Ala	Asp 180	His	Tyr	Gln	Gln	Asn 185	Thr	Pro	Ile	Gly	Asp 190	Gly	Pro
Val	Leu	Leu 195	Pro	Asp	Asn	His	Tyr 200	Leu	Ser	Thr	Gln	Ser 205	Ala	Leu	Ser
Lys	Asp 210	Pro	Asn	Glu	Lys	Arg 215	Asp	His	Met	Val	Leu 220	Leu	Glu	Phe	Val
Thr 225	Ala	Ala	Gly	Ile	Thr 230	His	Gly	Met	Asp	Glu 235	Leu	Tyr	Lys	Leu	Gln 240
Ser	Pro	Pro	Pro	Lys 245	Lys	Lys	Arg	Lys	Val 250	Glu	Leu	Gly	Gly	Ser 255	Met
Asp	Pro	Ala	Glu 260	Ala	Val	Leu	Gln	Glu 265	Lys	Ala	Leu	Lys	Phe 270	Met	Cys
Ser	Met	Pro 275	Arg	Ser	Leu	Trp	Leu 280	Gly	Cys	Ser	Ser	Leu 285	Ala	Asp	Ser
Met	Pro 290	Ser	Leu	Arg	Cys	Leu 295	Tyr	Asn	Pro	Gly	Thr 300	Gly	Ala	Leu	Thr
Ala 305	Phe	Gln	Asn	Ser	Ser 310	Glu	Arg	Glu	Asp	Cys 315	Asn	Asn	Gly	Glu	Pro 320
Pro	Arg	Lys	Ile	Ile 325	Pro	Glu	Lys	Asn	Ser 330	Leu	Arg	Gln	Thr	Tyr 335	Asn
Ser	Суз	Ala	Arg 340	Leu	Cys	Leu	Asn	Gln 345	Glu	Thr	Val	Cys	Leu 350	Ala	Ser
Thr	Ala	Met 355	Lys	Thr	Glu		Суs 360	Val	Ala	Lys		Lys 365		Ala	Asn
Gly	Thr 370	Ser	Ser	Met	Ile	Val 375	Pro	Lys	Gln	Arg	180	Leu	Ser	Ala	Ser
Tyr 385	Glu	Lys	Glu	Lys	Glu 390	Leu	Cys	Val	Lys	Tyr 395	Phe	Glu	Gln	Trp	Ser 400
Glu	Ser	Asp	Gln	Val 405	Glu	Phe	Val	Glu	His 410	Leu	Ile	Ser	Gln	Met 415	Cys
His	Tyr	Gln	His 420	Gly	His	Ile	Asn	Ser 425	Tyr	Leu	Lys	Pro	Met 430	Leu	Gln
	Asp	435					440		_	_		445			
Glu	Asn 450	Ile	Leu	Ser	Tyr	Leu 455	Asp	Ala	Lys	Ser	Leu 460	Cys	Ala	Ala	Glu
Leu	Val	Cys	Lys	Glu	Trp	Tyr	Arg	Val	Thr	Ser	Asp	Gly	Met	Leu	Trp

Lys	Lys	Leu	Ile	Glu 485	Arg	Met	Val	Arg	Thr 490	Asp	Ser	Leu	Trp	Arg 495	Gly
Leu	Ala	Glu	Arg 500	Arg	Gly	Trp	Gly	Gln 505	Tyr	Leu	Phe	Lys	Asn 510	Lys	Pro
Pro	Asp	Gly 515	Asn	Ala	Pro	Pro	Asn 520	Ser	Phe	Tyr	Arg	Ala 525	Leu	Tyr	Pro
Lys	Ile 530	Ile	Gln	Asp	Ile	Glu 535	Thr	Ile	Glu	Ser	Asn 540	Trp	Arg	Cys	Gly
Arg 545	His	Ser	Leu	Gln	Arg 550	Ile	His	Cys	Arg	Ser 555	Glu	Thr	Ser	Lys	Gly 560
Val	Tyr	Cys	Leu	Gln 565	Tyr	Asp	Asp	Gln	Lys 570	Ile	Val	Ser	Gly	Leu 575	Arg
Asp	Asn	Thr	Ile 580	Lys	Ile	Trp	Asp	Lys 585	Asn	Thr	Leu	Glu	Cys 590	Lys	Arg
Ile	Leu	Thr 595	Gly	His	Thr	Gly	Ser 600	Val	Leu	Суз	Leu	Gln 605	Tyr	Asp	Glu
Arg	Val 610	Ile	Ile	Thr	Gly	Ser 615	Ser	Asp	Ser	Thr	Val 620	Arg	Val	Trp	Asp
Val 625	Asn	Thr	Gly	Glu	Met 630	Leu	Asn	Thr	Leu	Ile 635	His	His	Суз	Glu	Ala 640
Val	Leu	His	Leu	Arg 645	Phe	Asn	Asn	Gly	Met 650	Met	Val	Thr	Cys	Ser 655	Lys
Asp	Arg	Ser	Ile 660	Ala	Val	Trp	_	Met 665		Ser	Pro	Thr	Asp 670	Ile	Thr
Leu	Arg	Arg 675	Val	Leu	Val	Gly	His 680	Arg	Ala	Ala	Val	Asn 685	Val	Val	Asp
Phe	Asp 690	Asp	Lys	Tyr	Ile	Val 695	Ser	Ala	Ser	Gly	700	Arg	Thr	Ile	Lys
Val 705	Trp	Asn	Thr	Ser	Thr 710	Cys	Glu	Phe	Val	Arg 715	Thr	Leu	Asn	Gly	His 720
Lys	Arg	Gly	Ile	Ala 725	Суз	Leu	Gln	Tyr	Arg 730	Asp	Arg	Leu	Val	Val 735	Ser
			740		Thr			745	_	_			750	_	
-		755			Glu	_	760					765	_		
Phe	Asp	Asn	Lys	Arg	Ile	Val	Ser	Gly	Ala	Tyr	Asp	Gly	Lys	Ile	Lys